- (5) The pressure in the package at  $20^{\circ}$  C ( $68^{\circ}$  F) must be less than 101.3 kPa (14.8 psia).
- (b) Packagings for uranium hexafluoride must be periodically inspected, tested, marked and otherwise conform with the American National Standard N14.1–1990.
- (c) Each repair to a packaging for uranium hexafluoride must be performed in accordance with American National Standard N14.1–1990.

# §173.421 Excepted packages for limited quantities of Class 7 (radioactive) materials.

- (a) A Class 7 (radioactive) material whose activity per package does not exceed the limits specified in §173.425 and its packaging are excepted from the specification packaging, marking, labeling and, if not a hazardous substance or hazardous waste, the shipping paper and certification requirements of this subchapter and requirements of this subchapter and requirements of this subchapter if:
- (1) Each package meets the general design requirements of §173.410;
- (2) The radiation level at any point on the external surface of the package does not exceed 0.005 mSv/hour (0.5 mrem/ hour);
- (3) The nonfixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in §173.443(a);
- (4) The outside of the inner packaging or, if there is no inner packaging, the outside of the packaging itself bears the marking ''Radioactive'';
- (5) Except as provided in §173.426, the package does not contain more than 15 grams of uranium-235; and
- (6) The material is otherwise prepared for shipment as specified in accordance with §173.422.
- (b) A limited quantity of Class 7 (radioactive) material that is a hazardous substance or a hazardous waste, is not subject to the provisions in §172.203(d) or §172.204(c)(4) of this subchapter.

### §173.422 Additional requirements for excepted packages containing Class 7 (radioactive) materials.

(a) Except for materials subject to the shipping paper requirements of subpart C of Part 172 of this subchapter, excepted packages prepared for ship-

- ment under the provisions of §173.421, §173.424, §173.426, or §173.428 must be certified as being acceptable for transportation by having a notice enclosed in or on the package, included with the packing list, or otherwise forwarded with the package. This notice must include the name of the consignor or consignee and one of the following statements, as appropriate:
- (1) "This package conforms to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material, UN2910";
- (2) "This package conforms to the conditions and limitations specified in 49 CFR 173.424 for radioactive material, excepted package-instruments or articles, UN2910";
- (3) "This package conforms to the conditions and limitations specified in 49 CFR 173.426 for radioactive material, excepted package-articles manufactured from natural or depleted uranium, or natural thorium, UN2910"; or
- (4) "This package conforms to the conditions and limitations specified in 49 CFR 173.428 for radioactive material, excepted package-empty package, UN2910."
- (b) An excepted package of Class 7 (radioactive) material that is classed as Class 7 and is prepared for shipment under the provisions of §173.421, §173.423, §173.424, §173.426, or §173.428 is not subject to the requirements of this subchapter, except for—
- (1) Sections 171.15, 171.16, 174.750, 176.710, and 177.861 of this subchapter, pertaining to the reporting of incidents and decontamination, when transported by a mode other than air;
- (2) Sections 171.15, 171.16, 175.45, and 175.700(b) of this subchapter pertaining to the reporting of incidents and decontamination when transported by aircraft; and
- (3) The training requirements of subpart H of part 172 of this subchapter and, for materials that meet the definition of a hazardous substance or a hazardous waste, the shipping paper requirements of subpart C of Part 172 of this subchapter.

[Amdt. 173–244, 60 FR 50307, Sept. 28, 1995, as amended by Amdt. 173–244, 61 FR 20751, May 8, 1996]

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#### §173.423 Requirements for multiple hazard limited quantity Class 7 (radioactive) materials.

- (a) Except as provided in §173.4, when a limited quantity radioactive material meets the definition of another hazard class or division, it must be-
  - (1) Classed for the additional hazard;
- (2) Packaged to conform with the requirements specified in §173.421(a)(1) through (a)(5) or §173.424(a) through (g), as appropriate; and
- (3) Offered for transportation in accordance with the requirements applicable to the hazard for which it is classed.
- (b) A limited quantity Class 7 (radioactive) material which is classed other than Class 7 in accordance with this subchapter is excepted from the requirements of §§173.422(a), 172.203(d), and 172.204(c)(4) of this subchapter if the entry "Limited quantity radioactive material" appears on the shipping paper in association with the basic description.

## §173.424 Excepted packages for radioactive instruments and articles.

A radioactive instrument or article and its packaging is excepted from the specification packaging, shipping paper and certification, marking and labeling requirements of this subchapter and requirements of this subpart, if:

(a) Each package meets the general design requirements of §173.410;

- (b) The activity of the instrument or article does not exceed the relevant limit listed in Table 7 in §173.425;
- (c) The total activity per package does not exceed the relevant limit listed in Table 7 in §173.425;
- (d) The radiation level at 10 cm (4 in) from any point on the external surface of any unpackaged instrument or article does not exceed 0.1 mSv/hour (10 mrem/hour);
- (e) The radiation level at any point on the external surface of a package bearing the article or instrument does not exceed 0.005 mSv/hour (0.5 mrem/ hour), or, for exclusive use domestic shipments, 0.02 mSv (2 mrem/hour);
- (f) The nonfixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in §173.443(a);
- (g) Except as provided in §173.426, the package does not contain more than 15 grams of uranium-235; and
- (h) The package is otherwise prepared for shipment as specified in § 173.422.

## §173.425 Table of activity limits-excepted quantities and articles.

The limits applicable to instruments, articles, and limited quantities subject to exceptions under §§ 173.421 and 173.424 are set forth in Table 7 as follows:

TABLE 7.—ACTIVITY LIMITS FOR LIMITED QUANTITIES, INSTRUMENTS, AND ARTICLES

Nature of contents	Instruments and articles		
	Limits for each instru- ment or article <sup>1</sup>	Package limits <sup>1</sup>	Materials package limits 1
Solids:			
Special form	10-2A <sub>1</sub>	A <sub>1</sub>	10-3A <sub>1</sub>
Normal form	10 <sup>-2</sup> A <sub>2</sub>	A <sub>2</sub>	10 <sup>-3</sup> A <sub>2</sub>
Liquids:			
Tritiated water:			
<0.0037 TBq/liter (0.1 Ci/L)			37 TBq (1,000 Ci)
0.0037 TBq to 0.037 TBq/L (0.1 Ci to			3.7 TBq (100 Ci)
1.0 Ci/L).			
>0.037 TBq/L (1.0 Ci/L)			0.037 TBq (1.0 Ci)
Other Liquids	10 <sup>-3</sup> A <sub>2</sub>	10 <sup>-1</sup> A <sub>2</sub>	10 <sup>-4</sup> A <sub>2</sub>
Gases:			
Tritium 2	2 x 10 <sup>-2</sup> A <sub>2</sub>	2 x 10 <sup>-1</sup> A <sub>2</sub>	2 x 10 <sup>-2</sup> A <sub>2</sub>
Special form	10 <sup>-3</sup> A <sub>1</sub>	10 <sup>-2</sup> A <sub>1</sub>	10 <sup>-3</sup> A <sub>1</sub>
Other form	10-3A <sub>2</sub>	10-2A <sub>2</sub>	10-3A <sub>2</sub>

<sup>&</sup>lt;sup>1</sup>For mixtures of radionuclides see § 173.433(d). <sup>2</sup>These values also apply to tritium in activated luminous paint and tritium adsorbed on solid carriers.